Distilleries

SPECIAL HAZARD APPLICATION

The distillation process used to make alcoholic beverages such as whiskey, vodka, rum, gin, and others, presents various fire hazards.

Equipment, heating fuels, ingredients, and end products are typically quite flammable and easy to ignite during manufacturing. Having proper fire detection is crucial to ensure the safety of personnel, property, and the surrounding environment.

Fermented mash or base alcohol are commonly used to start the distillation process. In both pot and column type stills, the goal is to heat potentially flammable liquids to a boiling point; then cool and collect the heated vapors. The vapors are condensed back to a liquid form resulting in a purified alcohol product. Vapors and fluid spills can easily ignite when exposed to open flames, and failing or hot equipment.

Smoke based detections system are often challenged and can be impractical under the harsh conditions within distillation facilities. The extreme conditions inherent to distillery facilities have limited or negligible impact on Linear Heat Detector performance. Protectowire Linear Heat Detectors are ideal for use in special hazard environments providing proximity detection near and around distillation equipment.

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